

## Final Report Form 3400-189 (rev. 7/30/09)

- Targeted Runoff Management Grant Program (ch. NR 153)
- Notice of Discharge Program (ch. NR 153)
- Urban Nonpoint Source & Storm Water Management Grant Program (ch. NR 155)

**NOTICE:** This Final Report is authorized under ss. 281.65 and 281.66., Wis. Stats., and chs. NR 153 and NR 155, Wis. Admin. Code. Personally identified information collected will be used for program administration and may be made available to requesters as required under Wisconsin Open Records Law [ss. 19.31-19.39, Wis. Stats.].

**INSTRUCTIONS:** Your grant agreement requires you to submit a Final Report with your final reimbursement request. This Final Report form must be used in conjunction with the "FINAL REPORT INSTRUCTIONS." The instructions detail how to complete and submit the report to DNR as described in the instructions.

### 1. GRANT TYPE. Check the one that applies.

- |   |  |
|---|--|
| <input type="checkbox"/> Targeted Runoff Management Grant – Agricultural                                | <input type="checkbox"/> Targeted Runoff Management Grant – Urban                        |
| <input checked="" type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Construction | <input type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Planning |
| <input type="checkbox"/> Notice of Discharge Grant  |  |

### 2. PROJECT NAME & LOCATION.

2.1. Project Name: <b>Fire Lane Dr. Water Quality Pond</b>	2.2. Grant Number: <b>USC-LF01-05106-11A Amend. #1</b>	
2.3. Governmental Unit Name: <b>Bellevue, Village</b>	2.4. Primary Watershed Name: <b>East River</b>	2.5. Watershed Code: <b>LF01</b>

#### NOTE FOR SECTION 2.6 (which follows):

Section 2.6. includes five (5) columns (A. through E.) for recording data about five (5) discrete site locations. If your grant has more than five (5) discrete project locations, attach additional columns for Section 2.6 as described in the instructions. If your project occurs in more than one 12-digit Hydrologic Unit Code (HUC), use the space in adjacent columns to record other HUC numbers.

2.6 Site Location(s) →	A.	B.	C.	D.	E.
Name of Cost-Share Recipient or Governmental Unit	<b>Bellevue, Village</b>				
Cost-Share Agreement Number (Agricultural only)					
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	<b>040302040302</b>				
Nearest Surface Receiving Water Affected					
Name:	<b>Willow Creek</b>				
Waterbody Identification Code(s) (WBIC):	<b>118300</b>				
Nearest Impaired Water Affected					
Name:	<b>East River</b>				
Waterbody Identification Code(s) (WBIC):	<b>118000</b>				
Pollutants Reduced	<b>TSS</b>				
Impairments/Impacts Addressed	<b>TSS</b>				

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Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	23				
Range	21				
Section	18				
Quarter	PC49				
Quarter-Quarter					
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	44-28-20N				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	87-59-26W				

### 3. SUMMARY OF RESULTS.

**Table A. Agricultural Projects. – Ch. NR 151 Performance Standards and Prohibitions and Other Water Resources Management Priorities**

A.1. Management Measures	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting "T"	acres	
Manure Storage Facilities: New Construction/Alterations	Number of facilities	facilities	
	Number of animal units	animal units	
Manure Storage Facilities: Closure	Number of facilities	facilities	
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities	facilities	
	Number of animal units	animal units	
Clean Water Diversions in WQMA	Pollutant load reduction	lbs.	
	Number of farms with diversions	farms	
	Number animal units	animal units	
Nutrient Management on Agricultural Land	Acres planned	acres	
Prohibition: Manure Storage Overflow	Number of farms	farms	
	Number of animal units	animal units	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	farms	
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction	lbs.	
	Number of facilities	facilities	
	Number of animal units	animal units	
Prohibition: Unlimited Livestock Access	Feet of bank protected	feet	
	Number of farms	farms	



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Table A. Agricultural Projects. (continued)		Quantity	Measurement Method Used
A.2. Other Management Measures	Units of Measure		
Streambank & Shoreline Protection	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		

Table B. Urban Construction Projects Serving Developed Areas.			
B.1. Required Management Measures	Units of Measure	Quantity	Measurement Method Used
20-40% Total Suspended Solids (TSS) Reduction for NR 216 communities	TSS reduced	10304 lbs.	SLAMM
	TSS reduction	78 %	SLAMM
B.2. Other Management Measures			
20-40% Reduction in TSS for non-NR 216 communities	TSS reduced	lbs.	
	TSS reduction	%	
Infiltration	Pre-development stay-on volume	%	
	Stay-on volume	ft <sup>3</sup> /year	
Peak flow discharge for 2 year/24 hour design storm	Change in cubic feet per second for design year	ft <sup>3</sup> /sec	
Protective areas	Bank protected	feet	
Fueling & maintenance areas	Oily sheen presence reduced	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Streambank & Shoreline Protection	Bank erosion reduced	tons	
	Bank protected	feet	
Other:	Pollutant load reduction (if method available)		
	Units (use feet, acres or number as applicable)		

Table C. Urban Planning Projects.			
C.1. Governmental unit(s) involved (list by name):			
C.2. Estimate total acres covered by the	Existing Developed Urban Areas	New Development	Total Acres

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planning product:	acres	acres	acres
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<b>C.3. Products developed</b> (check all below that apply)	<b>Identify Documents by Name (if applicable)</b>
<input type="checkbox"/> Storm Water Plan	
<input type="checkbox"/> Construction or Erosion Ordinances	
<input type="checkbox"/> Post-construction Storm Water Ordinances	
<input type="checkbox"/> Other Types of Storm Water Quality Ordinances	
<input type="checkbox"/> Financing Methods: identified and evaluated	
<input type="checkbox"/> Financing Methods: developed or implemented	
<input type="checkbox"/> I & E Plan	
<input type="checkbox"/> I & E Implementation Activities	
<input type="checkbox"/> Other:	
<b>C.4. Identify the Storm Water goals addressed (check all that apply)</b>	
<input type="checkbox"/> Reduce TSS	<b>Comments:</b>
<input type="checkbox"/> Maintain infiltration	
<input type="checkbox"/> Control Peak Flow	
<input type="checkbox"/> Protective Areas	
<input type="checkbox"/> Control of Fueling & Maintenance Areas	
<input type="checkbox"/> Remove Illicit Discharges	
<input type="checkbox"/> Other:	

### 4. Satisfaction of Notice Requirements. If cost sharing for this project was offered under a formal notice pursuant to chs. NR 151 or 243, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Chs. NR 151 or 243 Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	



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**5. Additional Information.** (Space will expand to fit your text.)

See attached SLAMM Summary and Design Parameters for the % Removal TSS

**6. Summary of Project Challenges.** (Space will expand to fit your text.)

The vegetation and plantings are a special installation and the typical landscapers that provide these services are not at the level needed to provide an excellent project without the services of an ecological professional. These BMP's also require a 3 year maintenance program in order fully establish the vegetation required. The funding program could look at taking that into account when providing funding for the construction with a higher % reimbursement during construction and allow the municipality to complete the remaining 2 years outside the grant period.

**7. Grantee Certification.**

Checking here ☒ certifies that, to the best of your knowledge, the information contained in this report is correct.

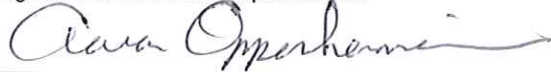
Name of Authorized Representative (type or print) ↓

Aaron Oppenheimer

Title of Authorized Representative (type or print) ↓

Administrator

Signature of Authorized Representative



Date

10/30/12

**8. For Departmental Use Only.**

Regional NPS Coordinator – Please complete the following:

8.A. Check here ☐ if you have received the following from the project sponsor:

- one (1) printed, signed, original Final Report + attachments
- one (1) electronic version of Final Report.

Send the printed, signed original Final Report with attachments + electronic version to the Community Financial Assistance Grants Manager. Community Financial Assistance will forward to Runoff Management Section Grants Coordinator.

8.B. Comments about this project:

8.C. Type or print Name of Regional NPS Coordinator →

8.D. Signature of Regional NPS Coordinator

8.E. Date

Wisconsin Department of Natural Resources  
Bureau of Watershed Management (WT/3)  
101 S. Webster St.  
Madison, WI 53703  
PO Box 7921  
Madison, WI 53707-7921

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## Photographic Log

Client's Name: Village of Bellevue

Project Name: Fire Lane Dr Stormwater Pond

Project No. USC-LF01-05106-11A

Photo No. 1	Date: 10/12/11
Direction Photo Taken Looking North end of Fire Lane Dr	
Photo Taken By: Thad M	
Description: Pond Location at end of Fire Lane Dr	








## Photographic Log

Client's Name: Village of Bellevue	Project Name: Fire Lane Dr Stormwater Pond	Project No. USC-LF01-05106-11A
------------------------------------	--	--------------------------------


Photo No. 2	Date: 10/12/11	
<b>Direction Photo Taken</b> Looking Northeast at end of Fire Lane Dr		
<b>Photo Taken By:</b> Thad M		
<b>Description:</b> Pond Location at end of Fire Lane Dr		





# Photographic Log

Client's Name: Village of Bellevue	Project Name: Fire Lane Dr Stormwater Pond	Project No. USC-LF01-05106-11A
------------------------------------	--	--------------------------------

Photo No. 3	Date: 10/12/11	
Direction Photo Taken Looking East		
Photo Taken By: Thad M		
Description: Pond Location at end of Fire Lane Dr		





# Photographic Log

Client's Name: Village of Bellevue	Project Name: Fire Lane Dr Stormwater Pond	Project No. USC-LF01-05106-11A
------------------------------------	--	--------------------------------

Photo No. 1	Date: 10/25/12
Direction Photo Taken Looking North	
Photo Taken By: Thad M	
Description: Pond at end of Fire Lane Dr	







# Photographic Log

Client's Name: Village of Bellevue	Project Name: Fire Lane Dr Stormwater Pond	Project No. USC-LF01-05106-11A
------------------------------------	--	--------------------------------

Photo No. 2	Date: 10/25/12
Direction Photo Taken Looking North	
Photo Taken By: Thad M	
Description: Pond at end of Fire Lane Dr – Outfall and Bank Protection	







# Photographic Log

Client's Name: Village of Bellevue	Project Name: Fire Lane Dr Stormwater Pond	Project No. USC-LF01-05106-11A
------------------------------------	--	--------------------------------

Photo No. 3	Date: 10/25/12
Direction Photo Taken Looking Southeast	
Photo Taken By: Thad M	
Description: Pond at end of Fire Lane Dr	





3-1-12

# **STORM WATER POND DESIGN NARRATIVE**

**COMMERCIAL WAY / FIRE LANE DRIVE  
BELLEVUE, WI**

**FEBRUARY 2012**

**PREPARED BY:**

**CEDAR CORPORATION  
2737 S. RIDGE ROAD, SUITE #400  
GREEN BAY, WI 54304**

**920-455-7001**

## **INTRODUCTION:**

This report contains information pertaining to the design of the Fire Lane Drive Storm Water Pond in the Village of Bellevue, Brown County, Wisconsin.

## **EXISTING CONDITIONS:**

An existing storm sewer system on Commercial Way and Fire Lane Drive collects storm water runoff from a watershed approximately forty (40) acres in size (see Appendix 1) and conveys it west to an earthen swale approximately two-hundred (200) feet west of the intersection of the two roadways. The earthen swale conveys the storm water runoff west for approximately seven hundred (700) feet to Willow Creek. The earthen swale has a narrow bottom and steep side slopes and provides minimal storm water management benefits.

According to NRCS (see Appendix 2) the soils on the site are (in order of prevalence): Oshkosh Silty Clay Loam, Dresden Silt Loam, Manawa Silty Clay Loam, Oshkosh Silt Loam, Manistee Fine Sandy Loam and Sisson Silt Loam.

According to the Village's storm water planning documents (see Appendix 3), the W4.19 watershed, contains 6.8 acres of roof, 7.3 acres of paved parking, 2.1 acres of driveway, 2.8 acres of street, 1.8 acres of landscaping and 18.9 acres of turf grass.

A wetland delineation has determined that wetland exist along Willow Creek. A copy of the report is attached in Appendix 4.

Existing storm water management within the watershed currently includes on-site storm water management and street sweeping. Street sweeping is completed monthly by the Village using a regenerative air sweeper.

## **PROPOSED CONDITIONS:**

The Village has proposed to construct a storm water pond near the intersection of Commercial Way and Fire Lane Drive to treat storm water runoff prior to discharge to Willow Creek.

The Village was originally considering a storm water pond located approximately five hundred (500) feet west of the intersection of the two roadways. Unfortunately, the Village was unable to obtain the necessary property and/or easements in this location. The Village is now proposing to construct a storm water pond approximately four hundred (400) feet north of the intersection of the two roadways (see Appendix 5). This area contains existing public right-of-way that was widened to accommodate a future cul-de-sac.



The revised pond location will require the installation of new storm sewer from the intersection of Commercial Way and Fire Lane Drive north along Fire Lane Drive to the storm water pond. A 29"x45" elliptical pipe has been selected based upon it's ability to convey the 5-year design storm to the pond and fit within the vertical constraints that exist on Fire Lane Drive.

The storm water pond will provide a five (5) foot deep permanent pool with a eight (8) foot wide safety shelf. The permanent pool elevation is 586.50. The side slopes below the safety shelf are 2:1 (horizontal:vertical). The pond bottom is 581.50. The permanent pool volume is approximatley 0.23 acre-feet. The storm water pond will provide a six and a half (6.5) foot deep active storage volume. The side slopes above the permanent pool are 3:1. The top of berm is 593.00. The active storage volume is approximately 0.96 acre-feet.

The HydroCAD model (version 10) was used to determine the appropriate size for the pond outlets (see Appendix 6). There are three outlets from the pond to Willow Creek: A small (6"-diameter PVC) pipe will maintain the permanent pool elevation while maximizing the detention time for small storm events (less than one inch of rainfall) at 586.5. A large (29"x45" elliptical RCP) pipe set one foot above the permanent pool, at 587.5, will convey regular flows. An armored overflow weir set four and a half (4.5) feet above the permanent pool, at 591.0, will convey large flows (greater than the 5 year design storm). During the 100-year storm event, the 6" PVC pipe will convey 1.8 CFS, the 29"x45" elliptical RCP pipe will convey 64.0 CFS and the overflow weir will convey 53.8 CFS for a total flow of approximatley 120 CFS. The peak elevation during the 100-year storm event is approximatley 592.0, which is one foot below the top of the berm.

Outlet protection and energy dissipation will be provided at the pipe discharge. The bottom will be virtually flat, ten (10) foot long by twelve (12) foot wide with 3:1 side slopes. The average velocity at the downstream end of the outlet protection will be 1.5 feet per second, as shown in Appendix 7, during the 2-year storm event, as required by WisDNR for discharge to a wetland.

The WinSLAMM model (version 9.4) was used to determine the Total Suspended Solids Removal efficiency of the proposed storm water pond. A five-year model run was used. Proposed modeling information has been attached in Appendix 8 and is summarized below:

	Load (lbs)	Removed (lbs)	Discharged (lbs)	Removal (%)
Watershed Controls	48698	28796 <sup>1</sup>	19902	59.1
Storm Water Pond	19902 <sup>2</sup>	9598 <sup>3</sup>	10304	48.2
Overall	48698 <sup>4</sup>	38394 <sup>5</sup>	10304 <sup>6</sup>	78.8 <sup>7</sup>

Figure 1: Water Quality Calculations

## PERMITTING:

The storm water pond is located directly adjacent to Willow Creek. In order to construct the storm water pond, the Village proposes to grade in excess of 10,000 square feet within the "regulatory bank" of a navigable waterway, construct an outfall greater than 24" in diameter and place armoring at the outfall location. Each of these actions triggers the need for a Chapter 30 permit. Due to the number of triggers, the Village will apply for an Individual Chapter 30 permit.

## MAINTENANCE RECOMMENDATIONS:

In order to maintain their capacity and effectiveness, the storm sewers and storm water pond will require regular maintenance. We offer the following maintenance recommendations:

The storm sewers are proposed at a relatively low slope, therefore sediment or debris deposition can occur within the pipe. The storm sewers should be inspected periodically and any sediment and/or debris shall be monitored or removed.

The storm water pond side slopes shall be maintained regularly. Care should be taken due to the relatively steep side slopes. The outlets shall be inspected regularly and any debris shall be removed.

<sup>1</sup> Removed by on-site storm water management facilities and street sweeping.

<sup>2</sup> From "Watershed Controls Discharged".

<sup>3</sup> Removed by storm water pond.

<sup>4</sup> From "Watershed Controls Load".

<sup>5</sup> Sum of "Watershed Controls Removed" and "Storm Water Pond Removed".

<sup>6</sup> From "Storm Water Pond Discharged".

<sup>7</sup> "Overall Removal" is not cumulative of "Watershed Controls Removal" and "Storm Water Pond Removal" since those figures each have different basis points. "Overall Removal", however, can be verified with the following equation:  $(59.1\%) + (100\% - 59.1\%) \times 48.2\% = 78.8\%$



The sediment deposition level shall be inspected yearly. When sediment reaches one-half of the dead storage depth, sediment shall be removed. Due to the size of storm water pond, we anticipate that sediment removal may be required every three to five years depending upon construction site erosion control and winter maintenance practices within the watershed. Removed sediment shall be disposed of in accordance with current regulations.

If/when the basin is dewatered for sediment removal, WisDNR limits the peak dewatering discharge rate to 50% of the 2-year storm event. For this project the 2-year storm event is approximately 38 CFS. Therefore the peak dewatering discharge rate is approximately 19 CFS. Since the permanent pool volume is 0.23 acre-feet the minimum dewatering time is:

$$0.23 \text{ ac} - \text{ft} \times \frac{43560 \text{ cf}}{1 \text{ ac-ft}} \times \frac{1 \text{ sec}}{19 \text{ cf}} \times \frac{1 \text{ min}}{60 \text{ sec}} = 9 \text{ minutes}$$

Figure 2: Minimum Dewatering Time

For permitting purposes, it may be advantageous to keep the discharge below 70 gallons per minute. The minimum dewatering time in that case would be:

$$0.23 \text{ ac} - \text{ft} \times \frac{43560 \text{ cf}}{1 \text{ ac-ft}} \times \frac{\text{minute}}{70 \text{ gallons}} \times \frac{1 \text{ gallon}}{0.1337 \text{ cf}} \times \frac{1 \text{ hour}}{60 \text{ minutes}} = 18 \text{ hours}$$

Figure 2: Minimum Dewatering Time

We do not recommend piling snow within the permanent pool of the storm water pond. The snow piles may block flow during the spring thaw.

## APPENDICIES:

1. Watershed Map
2. Soils
3. Watershed Land Use
4. Wetland Delineation
5. Plan Sheets
6. HydroCAD Modeling
7. 2-year Velocity HydroCAD model output
8. WinSLAMM Modeling

20120218\_W4.19 Existing WITH FIRE LANE POND - Output Summary.txt  
 SLAMM for Windows Version 9.4.0  
 (C) Copyright Robert Pitt and John Voorhees 2003  
 All Rights Reserved

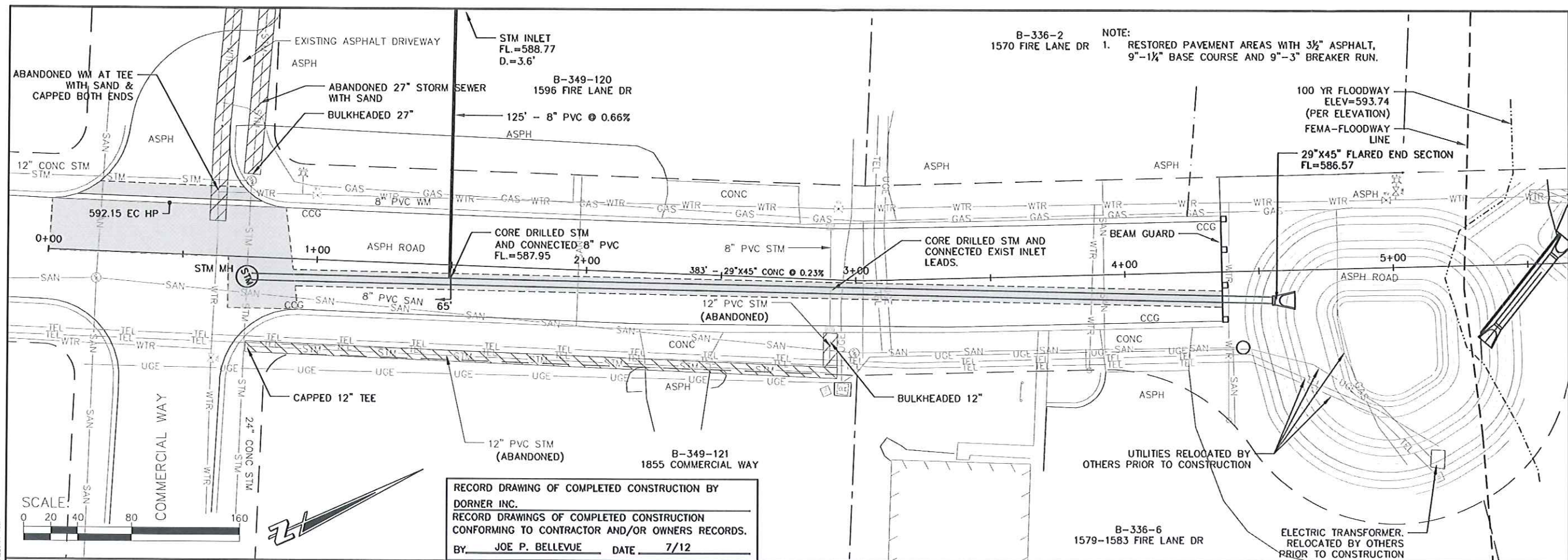
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 Particulate Solids Concentration file name: C:\Program Files (x86)\winslam\WI\_AVG01.psc  
 Runoff Coefficient file name: C:\Program Files (x86)\winslam\WI\_SL06 Dec06.rsv  
 Particulate Residue Delivery file name: C:\Program Files (x86)\winslam\WI\_DLV01.prr  
 Institutional Street Delivery file name: C:\Program Files (x86)\winslam\WI\_Res and Other Urban Dec06.std  
 Commercial Street Delivery file name: C:\Program Files (x86)\winslam\WI\_Com Inst Indust Dec06.std  
 Industrial Street Delivery file name: C:\Program Files (x86)\winslam\WI\_Com Inst Indust Dec06.std  
 Other Urban Street Delivery file name: C:\Program Files (x86)\winslam\WI\_Com Inst Indust Dec06.std  
 Freeway Street Delivery file name: C:\Program Files (x86)\winslam\WI\_Res and Other Urban Dec06.std  
 Pollutant Relative Concentration file name: C:\Program Files (x86)\winslam\Freeway Dec06.std  
 Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False  
 Model Run Start Date: 01/01/68 Model Run End Date: 12/30/72  
 Date of run: 02-28-2012 Time of run: 12:00:18  
 Total Area Modeled (acres): 39.7  
 Years in Model Run: 5.00

Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
4.218E+06	0 %	184.9	48698	0 %
4.218E+06	0.00%	159.5	42014	13.73%
2.499E+06	40.75%	127.6	19902	59.13%
2.499E+06	40.75%	66.05	10304	78.84%
500085			2062	

Source Area Total without Controls:  
 Total Before Drainage System:  
 Total After Drainage System:  
 Total After Outfall Controls:  
 Annualized Total After Outfall Controls:

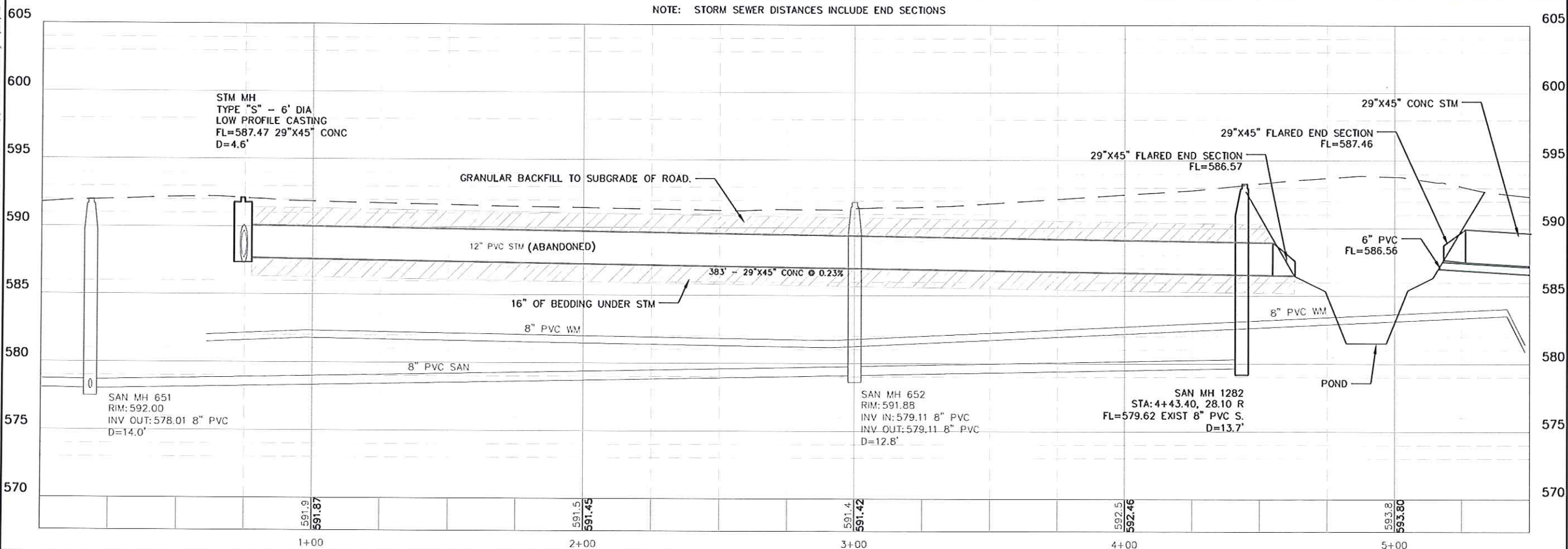


I:\Clients-CB\B4014 Bellevue Village of Bellevue\2012 Stormwater Ponds\CAO\Record Drawings\FIRE LANE - (1) PLAN SHEET.dwg 11/20/12 11:23:41 AM



RECORD DRAWING OF COMPLETED CONSTRUCTION BY  
DORNER INC.  
RECORD DRAWINGS OF COMPLETED CONSTRUCTION  
CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.  
BY JOE P. BELLEVUE DATE 7/12

NOTE: STORM SEWER DISTANCES INCLUDE END SECTIONS



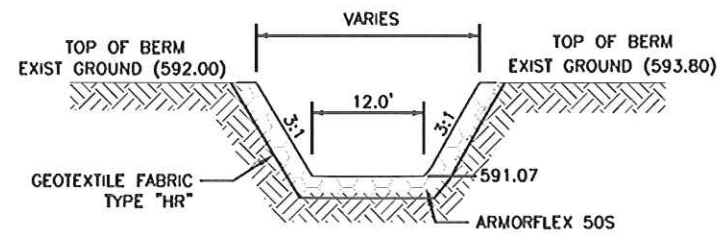
JOB NO.
BOOK NO.
DRAWN BY DJY
CHECKED BY TMM
DATE
REVISIONS MH 1282 5-10-12
REFERENCE FILE
DRAWING FILE

**Cedar** corporation  
2737 South Ridge Road  
Green Bay, Wisconsin 54304  
800-472-7372  
920-491-9020  
www.cedarcorp.com  
engineers • architects • planners • environmental specialists  
land surveys • landscape architects • interior designers

VILLAGE OF BELLEVUE  
2012 STORM WATER MANAGEMENT  
FIRE LANE DRIVE  
PLAN - PROFILE/REMOVAL/ABANDONEMENT PLAN

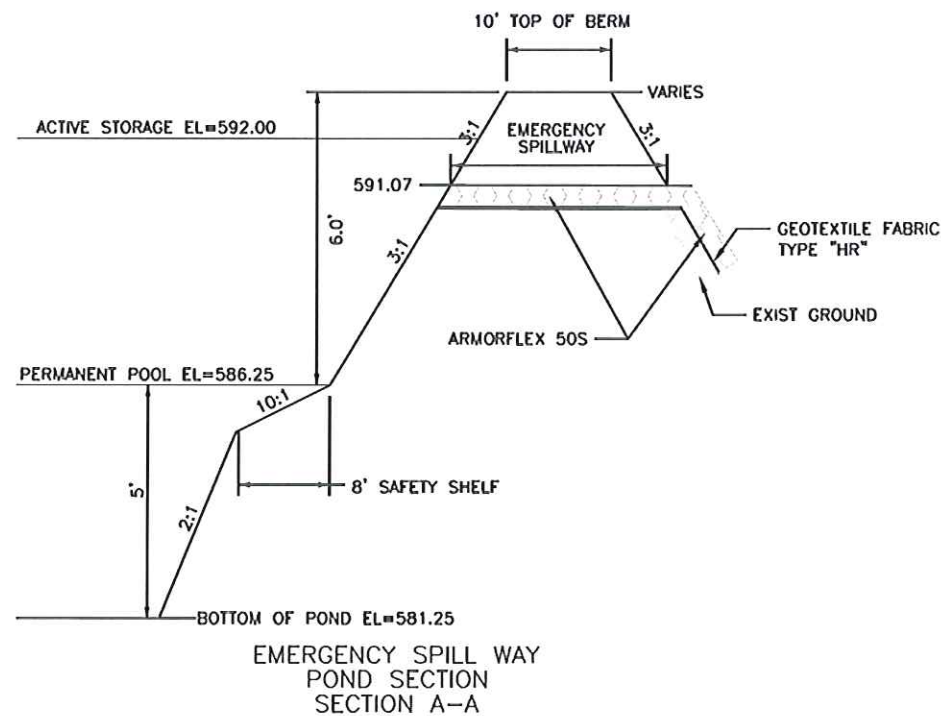
SHEET NO.  
11R OF 37



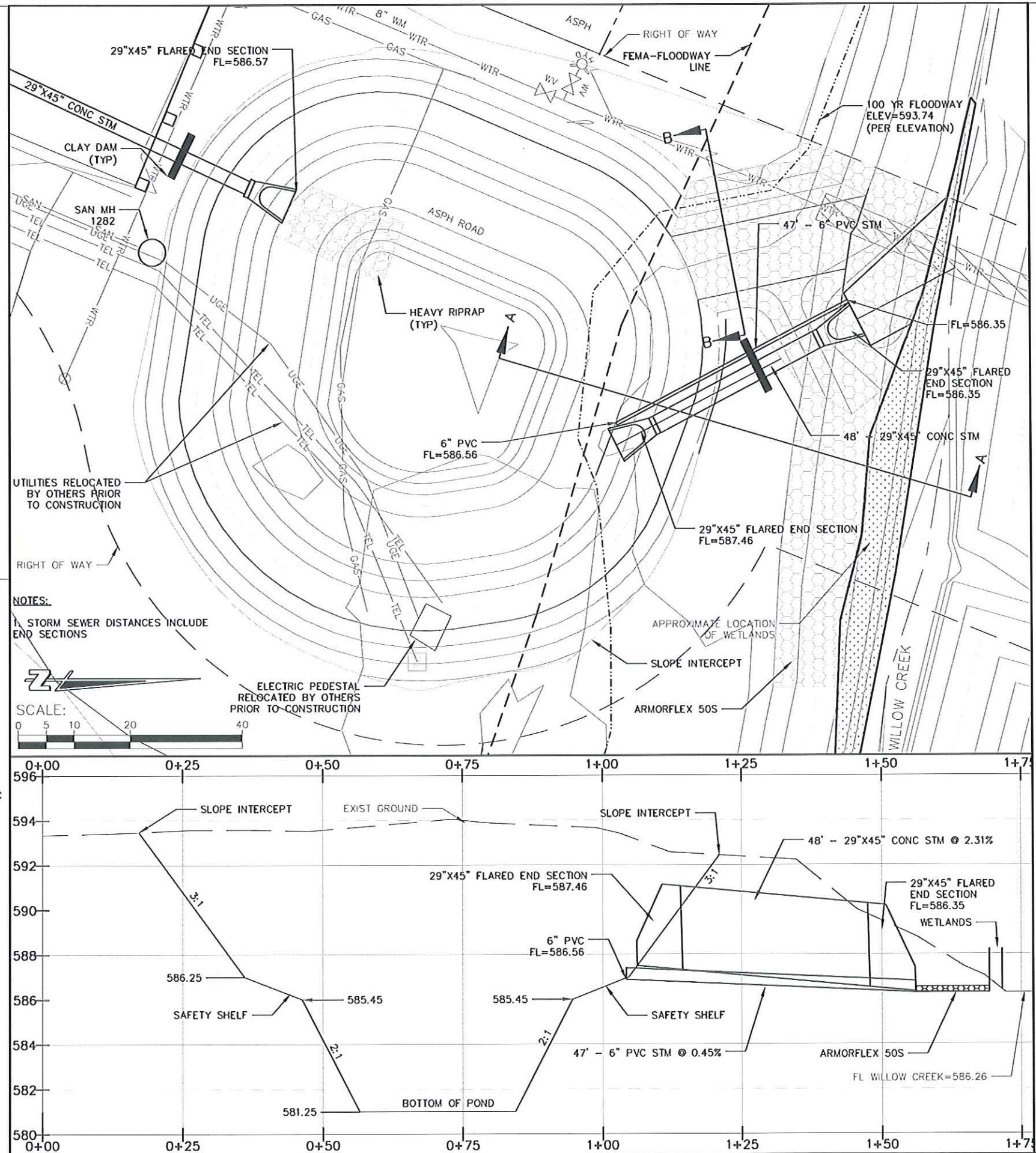


EMERGENCY SPILL WAY  
SECTION B-B

RECORD DRAWING OF COMPLETED CONSTRUCTION BY  
DORNER INC.  
RECORD DRAWINGS OF COMPLETED CONSTRUCTION  
CONFORMING TO CONTRACTOR AND/OR OWNERS RECORDS.  
BY JOE P. BELLEVUE DATE 7/12



EMERGENCY SPILL WAY  
POND SECTION  
SECTION A-A

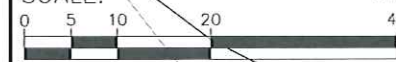


**NOTES:**

1. STORM SEWER DISTANCES INCLUDE  
END SECTIONS



SCALE:



JOB NO.	4914-0036
BOOK NO.	
DRAWN BY	DJY
CHECKED BY	TMM
DATE	
REVISIONS	
SCALE BAR	5-24-12
REFERENCE FILE	
DRAWING FILE	

2737 South Ridge Road  
Green Bay, Wisconsin 54304  
**Cedar** Corporation  
engineers • architects • planners • environmental specialists  
land surveyors • landscape architects • interior designers  
800-472-7372  
FAX 920-491-9020  
www.cedarcorp.com

VILLAGE OF BELLEVUE  
2012 STORM WATER MANAGEMENT  
FIRE LANE DRIVE  
STORM SEWER, POND AND SECTIONS

SHEET NO.  
12R OF 37

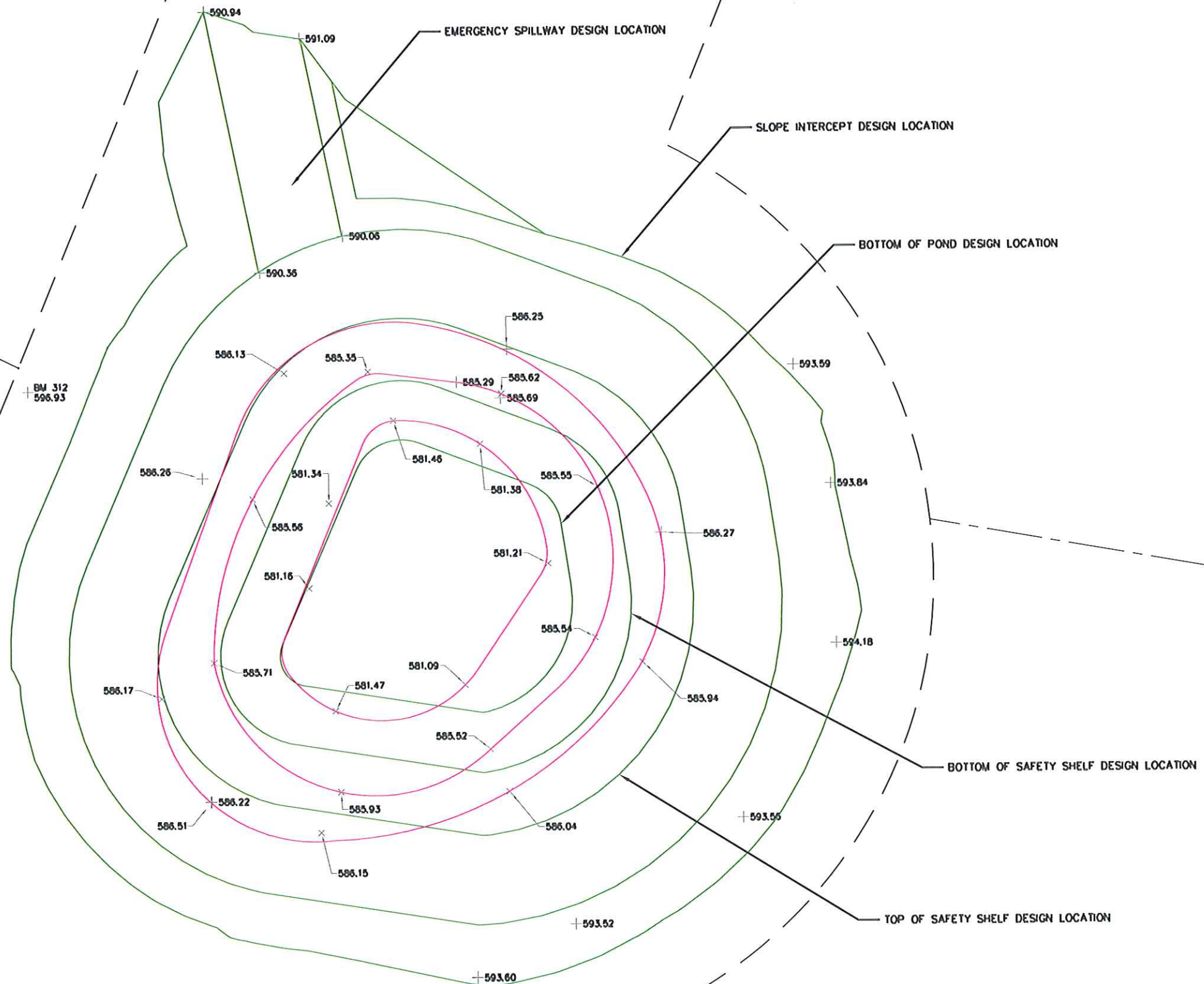
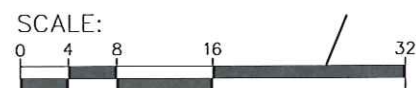


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#### FIRE LANE DESIGN ELEVATIONS

TOP OF SAFETY SHELF	=	586.50
BOTTOM OF SAFETY SHELF	=	585.70
BOTTOM OF POND	=	581.50

- +0.00 = FIELD ELEVATION AND LOCATION (7-20-12)
- = POND LAYOUT AS DESIGNED
- = POND LAYOUT AS CONSTRUCTED



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## FIRE LANE POND RECORD MEASURES vs AS BID STORM WATER MANAGEMENT VILLAGE OF BELLEVUE

SHEET NO.
1 OF 1